CheckMate[™] IV

Model RT-U49H+ **Universal Remote** Control



Programming & Operating Instructions

To have a clearer idea of the features and capabilities of your remote control, take a moment to carefully read these instructions Save for future reference.

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1. Introduction

Your CheckMate IV. Model BT-U49H+, universal remote control is simple to program, easy to use. and can operate up to four (4) devices, which include:

- CABLE Cable set-top terminals
- Televisions тν
- VIDEO VCR, DVD players Audio-video receivers, amplifiers, CD
 - players, cassette players, DMX / DCR Digital Music converters

Before you can use your remote control, it must be programmed (set-up) to operate the above devices.

2. Before Getting Started

Some of the special features on your remote control are:

Point and Press[™] Programming

Lets you program your TV. VIDEO and AUDIO devices without using codes. For more information, see sections 5. 6. 7and 8.

SmartKevs™

Program multiple button presses on the [CABI F]. [TV], [BYPASS] and [PPV] buttons. For more information. see section 14.

[DEVICE] Button

Tells which device you are currently operating by illuminating the device's power button. While the current device is illuminated, press a nonilluminated power button to operate a different device.

[VCR / VOD] Button

"Toggles" the VCR buttons between cable "Video-On-Demand" (VOD) and VCR / DVD functions.

Memorv Guard[™]

Eliminates reprogramming after battery changes.

Time Out

Shuts remote off if any button is pressed and held for 45 seconds. This extends battery life in the event the remote becomes lodged under or between heavy objects.

Reset

Lets you reset your remote to its original default settings. For more information, see section 17.

3. Installing / Replacing Batteries

Install two (2) "AAA" batteries as indicated by the diagram in the battery compartment.

When the illuminated buttons become dim or do not illuminate during use, install two (2) new "AAA" size batteries

Your remote control has Memory Guard[™], which eliminates reprogramming after battery changes.

4. Programming Your Cable Set-Top Terminal

Your remote control is pre-programmed to operate Motorola's DCT® (digital) and CFT2200 (analog) set-top terminals. If you are operating either of these cable set-top terminals, no cable programming is necessary - proceed to section 5.

If you need to operate another cable set-top terminal. look up the brand and model number in the Cable Setup Code list. If you are not sure of your brand and model, contact your cable company.

To program (setup) your cable set-top terminal...

- 1. Turn on your cable set-top terminal.
- 2. Press [DEVICE], then [MUTE] together hold both buttons down until the lighted mode buttons start blinking in sequence.
- 3. Press [CABLE]. The [CABLE] button lights up.
- 4. From the Cable Setup Code list, locate and enter the 3-digit code for your brand and model.
- 5. Press [CABLE] to lock in the code. The [CABLE] button will blink and go out.

Cable brand & setup code

5. Programming Your TV

If you have a TV that's operated by remote control, it's recommended that you plug it directly into a wall outlet instead of the cable set-top terminal.

To program (setup) your TV...

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- 1. Turn on your TV. 2. Press [DEVICE], then [MUTE] together - hold
- both buttons down until the lighted mode buttons start blinking in sequence.
- 3. Press [TV]. The [TV] button lights up.
- 4. a. Press and hold [CHA] until your TV turns off. As soon as your TV turns off, release [CHA]⁰. OR
- b. From the TV Setup Code list, locate and enter the 3-diait code until your TV turns off. If multiple codes are listed, you may have to enter several 3-digit codes until your TV turns off.
- 5. Press [MUTF]. If your TV turns back on, press [TV] to lock in the code. The [TV] button will blink and ao out.

If your TV doesn't turn back on, repeat steps 4 and 5 above until you can turn your TV off and on.

TV brand & setup code

• NOTE when using the Point and Press™ Programming method (step 4a.). If you find a code that turns your TV off but not back on, you may have gone past the correct matching code. Try pressing [CH▼] one step at a time until you find a code that turns vour TV back on.

6. Programming Your VCR or DVD

To program (setup) your VCR or DVD player...

- 1. Turn on your VCR or DVD player.
- 2. Press [DEVICE], then [MUTE] together hold both buttons down until the lighted mode buttons start blinking in sequence.
- 3. Press [VIDEO]. The [VIDEO] button lights up.
- 4. a. Press and hold [CHA] until your VCR or DVD turns off. As soon as your VCR or DVD turns off. release [CH▲]⁰.

OR

b. From the VCR or DVD Setup Code list, locate and enter the 3-digit code until your VCR or

If your VCR or DVD doesn't turn back on. repeat steps 4 and 5 above until you can turn vour VCR or DVD off and on.

VCR / DVD brand & setup code

● NOTE when using the Point and Press™ Programming method (step 4a.). If you find a code that turns your VCR or DVD off but not back on, you may have gone past the correct matching code. Try pressing [CH ▼] one step at a time until find a code that turns your VCR or DVD back on.

- functions.
- b. Find a TV Setup Code that operates the TV functions (power, vol \blacktriangle / \checkmark , mute, CH \blacktriangle / \checkmark , 0-9) of your TV / VCR unit.
- functions.
- or DVD.

unit.

5. Press [MUTE]. If your VCR or DVD player turns back on, press [VIDEO] to lock in the code. The [VIDEO] button will blink and go out.

7. Programming Your TV / VCR Combination

1. First, program your remote for the TV

a. Refer to Section 5 - Programming Your TV.

2. Then, program your remote for the VCR

a. Refer to Section 6 - Programming Your VCR

b. Enter, lock and test each 3-digit VCR Setup Code until a code is found that operates the VCR functions (play, stop, fast-forward, rewind, pause, record) of your TV / VCR

NOTE: You can not use the Point and Press™ Programming method to program the VCR functions of your TV / VCR unit.

8. Programming Your Audio Device

To program (setup) your audio-video receiver. amplifier. CD player, cassette player or Digital Music converter...

- 1. Turn on your Audio device.
- 2. Press [DEVICE], then [MUTE] together hold both buttons down until the lighted mode buttons start blinking in sequence.
- 3. Press [AUDIO]. The [AUDIO] button lights up.
- 4. a. Press and hold [CH] until your Audio device turns off. As soon as your Audio device turns off. release [CH▲][●].

OR

- b. From the Audio Setup Code list below, locate and enter the 3-digit code until your device turns off. If multiple codes are listed, you may have to enter several 3-digit codes until your Audio device turns off.
- 5. Press [MUTE]. If your Audio device turns back on, press [AUDIO] to lock in the code. The [AUDIO] button will blink and go out.

If your Audio device doesn't turn back on, repeat steps 4 and 5 above until you can turn your Audio device off and on.

Audio brand & setup code

● NOTE when using the Point and Press[™] Programming method (step 4a.). If you find a code that turns your Audio device off but not back on, you may have gone past the correct matching code. Try pressing [CHv] one-step at a time until find a code that turns your Audio device back on.

9. Operating Your Cable Set-Top Terminal

Your remote control is designed to operate all the features and functions of your cable set-top terminal.

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To select your remote's CABLE mode and operate your cable set-top terminal, press [DEVICE] then [CABLE]. The [CABLE] button will blink and go out. Then press...

| [CABLE] | CABLE on / off. |
|-------------------|-------------------------------------------|
| [TV] | TV on / off. |
| [VIDEO] | VCR / DVD on / off. |
| [audio] | AUDIO device on / off. |
| [CH▲] / [CH▼] | Increases / decreases CABLE channel. |
| | Increases / decreases TV volume. |
| [MUTE] | Mutes TV volume. |
| [EXIT] | Exits on-screen menus, view guide. |
| [MENU] | Displays on-screen features, options. |
| [GUIDE] | Displays on-screen listing of programs |
| | by date, time, channel. |
| [INFO] | Displays channel, time information. |
| [PPV]/[LOCK] | Displays pay-per-view events, enter |
| | parental control access code |
| [PG▲]/[PG▼] | Page up / down through menus, view guide. |
| [DAY◀]/[DAY▶] | Previous / next day in view guide |
| [◀], [▼], [▶], [▲ | Navigate on-screen menus, program |
| | guide, PPV events and interactive |
| | services. |
| [OK] / [SEL] | Select menu option, program PPV |
| | events and function options. |
| [MUSIC]/[ENT] | Selects Music Choice™ digital music |
| | through your cable set-top terminal |
| [HELP] | Displays on-screen help on cable set- |
| | top terminals so equipped. |
| [FAV] | Scroll through favorite channels |
| [LAST] | Displays last channel viewed. |
| [A], [B], [C] | Functions set by cable operator. |
| [0] - [9] | Numeric entry buttons. |
| [BYPASS] | RF bypass on cable set-top |
| | terminal. |
| [VCR / VOD] | Toggles VCR buttons between cable |
| | "Video -On-Demand" (VOD) and |
| | VCR functions. |
| [HELP] + [LAST] | Cable set-top terminal diagnostic |
| | functions (DCT, CFT2200) |
| | a CARLE made you can also |
| in your remote | 's CABLE mode, you can also |

In your remote's <u>CABLE</u> <u>mode</u>, you can also press the blue buttons at the bottom to operate your VCR / DVD's basic functions or the "Video-On-demand" (VOD) functions on your cable settop...

- VOD or VCR / DVD rewind. VOD or VCR / DVD play. VOD or VCR / DVD fast-forward.
- VOD or VCB / DVD pause.
- VOD or VCR / DVD stop. VOD or VCR record.

10. Operating Your TV

Your remote control can operate many functions of vour TV.

To select your remote's TV mode and operate your TV, press [DEVICE] then [TV]. The [TV] button will blink and go out. Then press...

[TV] TV on / off. CABLE on / off. [CABLE] [VIDEO] VCR / DVD on / off. [AUDIO] AUDIO on / off. [CH▲]/[CH▼] Increases / decreases TV channels. [VOL▲] / [VOL▼] Increases / decreases TV volume. [MUTE] Mutes TV volume. [0] - [9] Numeric entry buttons. [MENU] or [OK/SEL] Accesses TV's on-screen menus. [BYPASS] / [TV/VCR] Change TV's video inputs. [LAST] View last TV channel [INFO] Displays TV channels and time. [EXIT] Exits TV's on-screen menus [PIP] Picture-in-picture on / off. [POS] Picture-in-picture position. [SWAP] Picture-in-picture swap. [FRZ] Picture-in-picture freeze. [◀], [▼], [▶], [▲] Navigates TV's menu. [MUSIC] / [ENT] Pressed after 0-9 to change channels on some TV's [C] Sleep / timer functions. In your remote's TV mode, you can also press the blue buttons at the bottom to operate your

| VCR / DVD rewind. |
|-------------------------|
| VCR / DVD play. |
| VCR / DVD fast-forward. |
| VCR / DVD pause. |
| VCR / DVD stop. |
| VCR record. |

VCR / DVD's basic functions...

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11. Operating Your VCR or DVD

Your remote control can operate many functions of vour VCR or DVD player.

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To select your remote's VIDEO mode and operate your VCR or DVD, press [DEVICE] then [VIDEO]. The [VIDEO] button will blink and go out. Then press...

| VIDEO] | VCR / DVD power on / off. |
|-------------------|-------------------------------------|
| CABLE] | CABLE on / off. |
| TV] | TV on / off. |
| AUDIO] | AUDIO on / off. |
| CH▲]/[CH▼] | Increases / decreases VCR channels, |
| | or DVD skip "+ / –". |
| VOL▲] / [VOL▼] | Increases / decreases TV volume. |
| MUTE] | Mutes TV volume. |
| 0] - [9] | Enter VCR channels. |
| BYPASS]/[TV/VCR | Change VCR's video inputs. |
| EXIT] | DVD clear functions. |
| MENU] | DVD menu functions. |
| guide] | DVD guide functions. |
| INFO] | DVD program information. |
| ◀], [▼], [▶], [▲] | Navigate DVD menu. |
| MUSIC]/[ENT] | DVD enter functions. |
| A] | DVD subtitle on / off. |
| LAST] | DVD return function. |
| | |

In your remote's VIDEO mode, you can also press the blue buttons at the bottom to operate vour VCR / DVD's basic functions...

- VCR / DVD rewind. VCR / DVD play. VCR / DVD fast-forward. VCR / DVD pause.
- VCR / DVD stop.
- VCR record.

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12. Operating Your Audio Device

Your remote control can operate many functions of vour audio-video receiver, amplifier, CD plaver, cassette player or DMX / DCR Digital Music converter.

To select your remote's AUDIO mode operate your Audio devices, press [DEVICE] then [AUDIO]. The [AUDIO] button will blink and ao out. Then press...

| For audio-video receivers, press | | | |
|------------------------------------|-------------------------------------|--|--|
| [AUDIO] | A/V receiver on / off. | | |
| [VOL▲] / [VOL▼] | Increases / decreases Audio volume. | | |
| [MUTE] | Mutes Audio volume. | | |
| [CH▲] / [CH▼] | Next / last preset tuner channel. | | |
| [1] | Select "Tuner" input. | | |
| [2] | Select "CD" input. | | |
| [3] | Select "Tape # 1" input. | | |
| [4] | Select "Tape # 2" input. | | |
| [5] | Select "Phone" input. | | |
| [6] | Select "VCR # 1" input. | | |
| [7] | Select "VCR #2" input. | | |
| [8] | Select "LD" input. | | |
| [9] | Select "AUX" input. | | |
| [0] | Select "TV" input. | | |
| [BYPASS]/[TV/VCR] | AM / FM on tuner. | | |
| For CD and cassette players, press | | | |
| [◀] | CD / cassette rewind. | | |
| [▶] | CD / cassette play. | | |
| [▶] | CD / cassette fast-forward. | | |
| [11] | CD / cassette pause. | | |
| [=] | CD / cassette stop. | | |
| [•] | Cassette record. | | |

For DCR and DMX Digital Music Converters, press...

| audio] | DCR / DMX on / off. |
|----------------|-------------------------------|
| VOL▲] / [VOL▼] | Increases / decreases volume. |
| MUTE] | Mutes volume. |
| CH▲] / [CH ▼] | Change music selections. |
| 0] - [9] | Enter selections directly. |

13. Programming Volume Control

When you first program your remote, yolume / mute are controlled through your TV (except AUDIO volume which defaults to the AUDIO device).

remote are:

CABI F TV VIDEO

- 1. Press [DEVICE], then [MUTE] together hold both down until the lighted mode buttons start blinking in sequence.

in step 3.

Your remote has four (4) SmartKeys™ -[CABLE], [TV], [PPV], and [BYPASS] that operate in its cable mode. Each SmartKey™ can be programmed so whenever it's pressed, it can transmit up to 12 individual button presses in sequence.

Programming and using the [CABLE] SmartKey™

The [CABLE] button normally turns on / off your cable set-top terminal. Here's an example of how to program the [CABLE] SmartKey[™] to turn on (or off) your cable set-top terminal and TV, then tune your TV to its correct output channel, typically 3, with one button press...

- 1. Press [DEVICE], then [CABLE] to select the Cable mode of your remote.
- 2. Press [CABLE], then [SEL / OK] together hold both down together until the [CABLE] button lights up.

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| | |

he volume control options in each mode of the

TV (default). Cable or Audio. TV (default). Cable or Audio. TV (default). Cable or Audio. Audio device (default). Cable or TV.

To control volume / mute through your cable set-top terminal in the remote's cable mode ...

- 2. Press [CABI F] to select the cable mode. The [CABLE] button lights up.
- 3. Press [VOL], then [CABLE] for cable volume. The [CABI F] button will blink and go out.
- To return volume control back to your TV, repeat steps 1. and 2. above, then press [VOL ▲], then [TV]

14. Your Remote's SmartKeys™

- 3. In this order, press [TV], [0], [3]. The [CABLE] button will blink and remain illuminated.
- 4. Press [CH ▲] to lock in this setting. The [CABLE] button will blink and go out.

To return the [CABLE] button to its normal default setting, repeat steps 1 and 2 above, then press [CH▼].

Programming and using the [TV] SmartKev™

The [TV] button normally turns on / off your TV. Here's an example of how to program the [TV] SmartKev[™] to turn on (or off) your TV, then tune your TV to its correct output channel, typically 3, with one button press...

- 1. Press [DEVICE], then [CABLE] to select the Cable mode of your remote.
- 2. Press [TV], then [SEL / OK] together hold both down together until the [TV] button lights up.
- 3. In this order, press [0], [3]. The [TV] button will blink and remain illuminated.
- 4. Press [CH▲] to lock in this setting. The [TV] button will blink and go out.

To return the [TV] button to its normal default setting, repeat steps 1 and 2 above, then press [CH▼].

Programming and using the [PPV] SmartKey[™]

The [PPV] button (Cable mode) normally displays vour cable system's listing of pay-per-view events. Here's an example of how to program the [PPV] SmartKey[™] to tune to a specific cable channel (123) with one button press...

- 1. Press [DEVICE], then [CABLE] to select the Cable mode of your remote.
- 2. Press [PPV], then [SELECT / OK] together hold both down together until the [CABLE] button lights
- 3. In this order, press [1], [2], [3]. The [CABLE] button will blink and remain illuminated.
- 4. Press [CH] to lock in this setting. The [CABI F] button will blink and go out.

To return the [PPV] button to its normal default setting, repeat steps 1 and 2 above, then press [CH▼].

Programming and using the [BYPASS] SmartKey™

The [BYPASS] button (Cable mode) normally transmits a command that puts your cable set-top terminal in a BYPASS mode. While the cable set-top terminal is in its BYPASS mode, you can record one program on your VCR while watching a different program through your TV. When exiting cable settop terminal's BYPASS mode, your TV must be retuned to its correct output channel, typically 3, for proper cable reception.

Here's an example of how to program the [BYPASS] SmartKey[™] so whenever it is pressed, it will also tune your TV to its correct output channel, typically 3, for proper cable reception...

- 1. Press [DEVICE], then [CABLE] to select the Cable mode of your remote.
- 2. Press [BYPASS], then [SELECT / OK] together hold both down together until the [CABLE] button lights up.
- 3. In this order, press [DEVICE], [TV], [0], [3]. The [CABI F] button will blink and remain illuminated.
- 4. Press [CH ▲] to lock in this setting. The [CABLE] button will blink and go out.

To return the [BYPASS] button to its normal default setting, repeat steps 1 and 2 above, then press [CH▼].

Remember: When using any SmartKey[™] to transmit a series of functions, be sure to keep your remote aimed at the devices to ensure all functions are received in their entirety.

15. Programming a 2nd TV, VCR, DVD

Instead of programming an audio device, you can program your remote to operate a 2nd TV, 2nd VCR, or 2nd DVD player.

To program a 2nd TV to your remote's [AUDIO] button...

- 1. Turn on your 2nd TV.
- 2. Press [DEVICE], then [MUTE] together hold both buttons down until the lighted mode buttons start blinking in sequence.
- 3. Press [AUDIO], then [TV]. The [AUDIO] and [TV] buttons will start blinking.
- 4. a. Press and hold [CH▲] until your 2nd TV turns off. As soon as your 2nd TV turns off. release [CH▲]⁰.

OR

- 4. b. From the TV Setup Code list, locate and enter the 3-digit code until your 2nd TV turns off. If multiple codes are listed, you may have to enter several 3-digit codes until your 2nd TV turns off.
- 5. Press [MUTE]. If your 2nd TV turns back on, press [AUDIO] to lock in the code. The [AUDIO] button will blink and go out.

If your 2nd TV doesn't turn back on, repeat steps 4 and 5 above until you can turn your 2nd TV off and on.

● NOTE when using the Point and Press[™] Programming method (step 4a.). If you find a code that turns your 2nd TV off but not back on, you may have gone past the correct matching code. Try pressing [CH v] one step at a time until find a code that turns your 2nd TV back on.

If you want to program a 2nd VCR or DVD player in the above example, you would press [AUDIO], then [VIDFO] in step 3., then steps 4, and 5, referring to the Video Setup Code list.

16. Code Number Read Back

To identify a 3-digit device code stored under the Point and Press[™] method, follow these steps:

- 1. Press [DEVICE], then [MUTE] hold both down until the illuminated mode buttons start blinking in sequence.
- 2. Press [CABLE] to identify your cable set-top terminal code. Or [TV], [VIDEO], [AUDIO] to identify these codes. The selected mode button will be illuminated.

3. Press [INFO]. The illuminated button "blink back" the code numbers, with a 1 second interval between each digit of the code.

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Example: For code "035", the remote will blink 10 times, then 3 times, then 5 times.

17. Resetting Your Remote Control

To reset you remote to its factory default settings...

1. Press [SELECT / OK], then [LAST] - hold both down together until the [CBL], [TV], [VIDEO], and [AUDIO] buttons blink in sequence two times (approx. 5 seconds).

18. Helpful Tips & Troubleshooting

- Your remote is equipped with a Point and Press[™] quick-programming sticker on the back of its case. This will help you guickly program the remote without using codes.
- 2. The illuminated mode button will remain on while the remote is in a programming mode. In the absence of an entry, the button will go out after 20 seconds.

When locking in your devices, the illuminated mode button will blink and go out.

- 3. When using the Point and Press[™] programming method, you may find a code that turns your device off but not back on. If this happens ...
- a the correct code has not been found. Continue pressing [CH] until your devices turn on and ∩ff
- b. you may have gone past the correct matching code. Try pressing [CH ▼] one step at a time until find a code that turns your cable set-top terminal back on.
- 4. NOTE: If you have a Scientific Atlanta 8500 series cable set-top terminal, press [CH ▲] or [CH ▼] to turn on the cable set-top terminal. Press [CABLE] to turn these cable set-top terminals off.
- 5. When operating a General Instrument model DPBB Cable set-top terminal (Cable Setup Code #101), your remote's transmitting distance is limited to 20 ft. This is due to receiving limitations of the cable set-top terminal.

6. If you have any questions concerning the operation of your cable set-top terminal, contact your cable operator.

Cable Setup Codes

| Manufacturer MOTOROLA (GI) | Model DCT, CFT2200 | Code 001 |
|-------------------------------|----------------------------------------------|--------------------|
| | CFT2000, CFT2100, WNR | 115 |
| JERROLD | DL4, DP(V), DQN(V), DPBB | 101 |
| OAK / TOCOM | SIGMAONE P1, P2& P3, SIGMA2000, SIGMA 550 | 037 |
| PIONEER | VOYAGER | 122 |
| | BC4100, 4200, 4500, 4600 BA5000, 6000 | 034 |
| | BA-V1000, BA-V2000 | 120 |
| | BA-9000 | 121 |
| PACE | 510 Digital | 122 |
| PHILIPS | Digital | 017 |
| SCIENTIFIC-ATLANTA | EXPLORER | 122 |
| | 8600X | 002 |
| | 8600 | 011 |
| | 8540, 8550, 8570, 8580, 8590 | |
| TOCOM | 5503VIP & 5507, 5508 | 003 |
| ZENITH | MM2500 | 800 |
| | Z-TAC | 108 |

TV Setup Codes

| Admiral | 072 081 161 160 |
|-----------|---------------------------------|
| Akai | 001 146 |
| Amark | 112 143 |
| Ampro | 073 167 157 |
| Amstrad | 052 |
| Anam | 043 056 080 112 131 |
| AOC | 001 004 058 112 |
| Audiovox | 076 |
| Blaupunkt | 088 |
| Cairn | 201 |
| Candel | 001 002 003 004 |
| Capehart | 058 |
| Cetronic | 043 |
| Citizen | 001 002 003 004 043 101 103 143 |
| Classic | 043 |
| Concerto | 004 |
| Contec | 043 050 051 |
| | |

Coronado Craig Crown Curtis Math CXC Daewoo

> Daytron Dwin Dvnastv Dvnatech Eiki Electrohom

Emerson

Fisher Fuiitsu Funai Futuretech

GF

Goldstar

Hall Mark Hitachi

Infinity JBL JC Pennv

Jensen

JVC KEC Kenwood Kloss KMC KTV Lodgenet Logik Luxman I XI Magnavox Marantz

Matsui Memorex

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| ies | 143 043 043 143 001 004 101 143 043 |
|-----|-----------------------------------------------------------------------------------------------------------------------|
| | 044 016 043 044 076 103 114 125 127 143 004 143 177 043 062 187 |
| ne | 024 076 143 196 001 004 005 028 043 047 048 050 051 076 096 143 151 153 154 155 007 057 198 028 043 |
| l | 043 001 004 008 009 034 056 073 074 091 130 144 155 157 160 |
| | 161 165 004 102 106 112 113 116 119 127 143 004 |
| | 004 009 010 011 012 023 072 075 143 158 163 166 164 |
| | 164 001 004 008 009 024 030 065 101 143 156 160 |
| | 013 034 038 070 083 145 199 043 001 070 002 059 |
| | 143 001 043 143 154 072 072 |
| | 044 007 015 052 081 160 164 166 001 003 004 022 059 060 061 063 064 094 127 160 164 001 164 164 |
| | 004 007 072 |

| Metz | 088 |
|-------------|-----------------------------|
| MGA | 001 004 024 028 042 |
| Minerva | 088 |
| Mitsubishi | 004 024 028 040 042 109 124 |
| | 146 191 |
| MTC | 001 004 062 101 |
| NAD | 015 025 |
| NEC | 001 016 019 024 040 056 130 |
| | 132 134 |
| Nikei | 043 |
| Onking | 043 |
| Onwa | 043 |
| Optonica | 019 081 |
| Orion | 096 |
| Panasonic | 034 056 080 092 164 |
| Philco | 001 003 004 024 056 059 060 |
| Philco | 063 064 164 |
| Dhiling | |
| Philips | 001 003 004 005 038 059 093 |
| Diamagn | 127 164 |
| Pioneer | 001 018 023 025 116 135 190 |
| Portland | 004 143 |
| Proscan | 144 160 161 165 167 |
| Proton | 004 058 131 143 171 173 193 |
| Quasar | 034 056 092 |
| Radio Shack | 004 019 043 127 143 |
| RCA | 001 004 023 024 056 065 074 |
| | 144 152 156 160 161 165 |
| Realistic | 007 019 043 047 |
| Roctec | 186 |
| Runco | 073 157 168 169 178 179 180 |
| | 181 182 |
| Sampo | 001 004 058 202 |
| Samsung | 004 050 089 101 105 127 143 |
| J | 160 |
| Sanyo | 007 020 053 057 082 166 187 |
| Scott | 004 028 043 048 143 |
| Sears | 004 007 015 028 030 057 082 |
| Could | 094 143 160 165 166 |
| Seleco | 189 200 |
| Sharp | 004 014 019 022 028 029 081 |
| Shaip | 143 170 175 |
| Siemens | 088 |
| | 072 |
| Signature | |
| Sony | 070 085 126 139 147 185 194 |
| Soundesign | 003 004 028 043 |
| Spectricon | 112 |
| SSS | 004 043 |
| Supre Macy | 002 |

| | | 19 | | 20 | | 21 | | 22 | |
|--------------------------------------|----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|-------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|---------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| Tano Tatu Tech | ung hnics hwood | 001 003 044 059 060 063 064 127 160 164 081 056 062 034 080 004 002 003 004 024 028 043 072 101 143 | Fisher Funai GE Go Video Goldstar Harman/Kardon Hitachi | 018 020 026 034 043 063 150 | Realistic Rico Runco Salora Samsung | 001 008 010 014 034 053 054 083 104 106 058 148 014 032 083 104 107 109 112 113 115 122 125 | JVC KLH Kenwood LG Magnavox Marantz Mitsubishi | 238 223 224 235 241 247 237 217 227 | Curtis Mathes Denon Elnlightened Aud Fisher Fosgate Goldstar |
| Tele Tera TMM Tost | K | 037 046 086 087 072 172 004 007 015 030 040 062 101 138 143 | Instantreplay JCL JC Penny Jensen JVC | 160 083 083 012 020 083 104 106 043 012 043 048 050 055 060 083 130 150 152 | Sansui Sanyo Scott Sears Sharp Shintom | 043 048 135 001 007 010 014 104 134 037 112 129 131 001 008 009 010 014 020 073 081 106 112 053 054 083 159 165 024 | NAD Onkyo Panasonic Philips Pioneer Proceed | 221 216 233 228 234 237 229 230 219 | Harman/Kardo Hitachi Inkel JC Penny Jensen |
| - | tech | 008 009 146 174 184 188 192 004 004 008 009 019 028 034 060 061 063 064 072 074 143 164 | Kenwood Lloyd LXI Magin Magnavox Marnatz | 014 034 047 048 034 001 009 034 106 104 034 041 067 068 083 156 164 012 067 069 083 | Signature Sony Soundesign STS Sylvania | 034 001 052 053 056 057 058 076 078 083 154 034 020 034 059 067 083 | Proscan RCA Samsung Sharp Sony Thomson | 229 231 231 243 236 248 222 232 244 231 243 | JVC Kenwood Koss Krell Kyocera |
| Yarr York | oiteru nith | 076 001 004 004 043 072 073 095 103 157 112 | Marta Matsui MEI Memorex | 106 027 030 083 001 010 014 034 053 072 083 104 106 134 139 | Symphonic Tandy Tatung Teac Technics | 034 010 034 039 043 034 039 043 070 083 | Toshiba Yamaha Zenith Audio Setup | 233 245 234 246 235 241 247 | Lexicon Linn Luxman LXI Magnavox Marantz |
| | Setup Co | | MGA Minolta Mitsubishi | 045 046 059 020 020 045 046 049 051 059 061 142 151 | Teknika Thomas TMK Toshiba | 019 034 083 106 034 006 008 020 042 047 059 079 081 | ADC Adcom | 007 057 082 092 161 225 | Mcintosh MCS Meridian |
| Aiwa Akai Amp Anai Audio | ai pro am | 034 161 016 043 046 124 125 142 146 072 083 012 023 039 043 | MTC Multitech NEC Nordmende Optonica | 034 104 024 034 012 023 039 043 048 043 053 054 | Totevision Unitech Vector Resear Victor | 048 | Aiwa Akai AMC Amend | 018 104 170 188 202 203 211 213 138 189 125 126 127 128 171 174 054 | Mitsubishi Mondial NAD Nakamichi |
| Broc Can Cap Crai Curti | cksonic non oehart ig tis Mathes | 035 037 129 028 083 108 001 104 135 041 083 | Orion Panasonic Pentax Philco Philips | 025 070 074 083 133 140 145 020 063 083 034 067 083 034 054 067 071 083 106 | Videosonic Wards Yamaha | ts 012 034 046 141 104 001 020 024 034 053 054 083 104 131 012 034 039 043 | Angstrom Arcam Audio Access Audio File Audio Matrix | 071 167 | Onkyo Optimus Panasonic Philips |
| Dae | ewoo | 005 007 010 065 108 110 111 112 117 | Pilot Pioneer | 106 020 021 048 | Zenith | 034 048 056 058 072 080 106 | Audio Technic B & K | a 134 096 097 070 170 004 | Pioneer |

DVD Setup Codes

Harman/Kardon 218 225

220

226 240

231 243

Apex Digital

Denon

GE

Davtron

Dynatech

Emerson

Electrohome

DBX

108

059

034 053

138 153 162

012 023 039 043

006 025 027 029 034 035 036

037 046 083 106 117 129 131

Portland

Pulsar

Quartz

Quasar

RCA

Radio Shack 123

108

072 002 041

075 083 145

144 145 147 158

020 034 041 104 107 109 140

Proceed RCA Realistic Rotel Samsung Sansui Sanyo

Bose

Carver

Casio

Citation

Clarion

070 170 224

076

026

122 148

Cinema Sound 001 134

185 201 214 226

006 022 028 029 061 071 077

| 5 | Scott | 019 091 |
|-----|---------------|-----------------------------|
| 5 | Sears | 076 |
| e e | Sharp | 026 094 131 175 181 |
| | Sherwood | |
| - | | 024 030 051 055 102 105 106 |
| 5 | Sony | 015 018 053 064 088 093 101 |
| | | 160 166 184 218 |
| 5 | Soundesign | 036 |
| 5 | SSI | 068 |
| 1 | Faekwang | 138 |
| 1 | Teac | 005 019 049 111 212 217 |
| 1 | Theta Digital | 136 |
| 1 | Foshiba | 060 087 140 198 |
| ١ | lamaha | 021 023 026 067 089 129 169 |
| | | 173 177 205 232 |
| Z | Zenith | 143 210 |

LD Setup Codes

| Denon | 250 251 |
|---------------|---------|
| Funai | 245 |
| Kenwood | 236 249 |
| Magnavox | 237 246 |
| Marantz | 252 |
| Mitsubishi | 246 |
| NAD | 246 |
| Optimus | 236 239 |
| Panasonic | 243 |
| Philips | 237 |
| Pioneer | 244 246 |
| Radio Shack | 245 |
| RCA | 235 |
| Realistic | 239 |
| Runco | 247 |
| Sanyo | 241 |
| Sharp | 236 249 |
| Sony | 240 242 |
| Technics | 243 |
| Theta Digital | 237 |
| Toshiba | 246 249 |
| Yamaha | 238 248 |

DCR Setup Codes

| DMX-DJ | 254 |
|------------|-----|
| Maestro II | 255 |